

## CALIFORNIA'S FUTURE LOOKING BRIGHT WITH BERKELEY LAMP!

The new Berkeley Lamp will revolutionize the way Californians light up their homes and offices.

Based on four years of research in the Lawrence Berkeley National Laboratory with funding support from the California Energy Commission's Public Interest Energy Research (PIER) program

and the Department of Energy, this new lamp is a shining example of energy efficiency and powerful lighting. The light is warm and soft, the design is classy and practical, and the light radiance is astonishing. Better yet, the Berkeley Lamp uses up to 70% less energy than incandescent or halogen lights.

Flexible and easy-to-use, the Berkeley Lamp is a dual lamp set with two independently controllable and fully dimmable compact



*The Berkeley Lamp produces more light, less heat and uses less power than conventional lamps.*

fluorescent lamps. One lamp is pointed downward for lighting the task area. The other lamp filters light upward providing indirect lighting ideal for office and home environments with computers. You can adjust the light intensity and the direction and the strength of either lamp to suit your needs.

### MORE LIGHT, LESS COST

"The Berkeley Lamp offers great energy savings potential, generating more light but using less heat

and less power than conventional lamps", said Michael Siminovich, LBNL engineer. "It provides the same amount of light as a 300-watt halogen lamp and a 150-watt incandescent lamp, yet uses only one-quarter of the energy."

For the typical homeowner, this would mean a savings of about \$20-\$30 a year in electricity costs for a lamp illuminated 3

hours a day. At the office, the savings are similar, and computer users can avoid the overhead glare of fluorescent light systems by turning on the Berkeley Lamp instead.

If the Berkeley Lamp replaced a halogen torchiere lamp – the tall floor lamps with bowl tops that provide upward lighting – users would not only enjoy energy savings, but would also avoid the potential fire dangers of halogen lamps when they tip over. Unlike halogen lamps, the Berkeley Lamp is cool to the touch, making it much safer.

(Cont.)



*LBNL scientist Michael Siminovitch  
with the innovative Berkeley Lamp*

What's the cool, sleek Berkeley Lamp worth to California? Plenty. **If the Berkeley Lamp enjoyed the same market success of other conventional lamps, then the electricity savings would be immense – enough to supply 75,000 to 150,000 households during peak electricity hours. That's 100 to 200 megawatts, and one megawatt is enough to power roughly 750 homes.**

Since commercial and residential lighting combines for 22% of California's electricity consumption, the potential power savings from widespread use of the Berkeley Lamp could be enormous.

## **A LAMP TO SHOW THE WAY**

"We are most excited about the commercial sector's potential for saving power and operating costs by using the Berkeley Lamp," said California Energy Commissioner Art Rosenfeld. "Imagine if hotels, hospitals and offices replaced their conventional overhead and task lamps with Berkeley Lamps. The benefit to the state and all its citizens would be phenomenal."

The Berkeley Lamp project is just one of the energy research projects at the Lawrence Berkeley National Laboratory conducted in part with PIER's support. Established in 1998, the PIER Program conducts energy research and develops environmentally sound, safe, and affordable products for California. PIER, part of the California Energy Commission, is dedicated to strengthening California's economy by delivering energy efficient solutions to the marketplace.

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